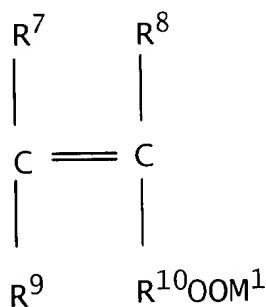


wherein  $R^1$ ,  $R^2$  and  $R^3$  are each independently hydrogen or methyl, provided that not all are methyl;  $R^4$  is  $-\text{CH}_2\text{O}-$ ,  $-(\text{CH}_2)_2\text{O}-$ ,  $-\text{C}(\text{CH}_3)_2\text{O}-$  or  $-\text{O}-$ ; the total carbon number of  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  is 3;  $R^5\text{O}$  is one or more species of  $\text{C}_2$ - $\text{C}_4$  oxyalkylene groups, and, in the case of two or more species, may be block or random;  $R^6$  is hydrogen or a  $\text{C}_1$ - $\text{C}_{22}$  alkyl, phenyl or  $\text{C}_1$ - $\text{C}_{18}$  alkylphenyl group; p is an integer from on average 1 to 100,

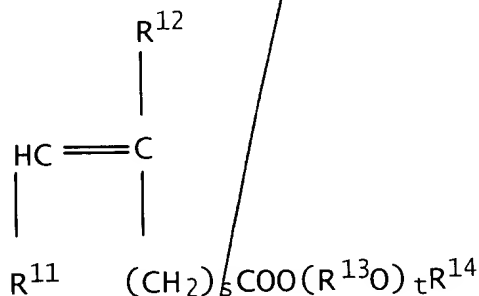
the monomer (B) is a compound according to general formula (2):



(2)

wherein  $R^7$  and  $R^8$  are each independently hydrogen or methyl;  $R^9$  is hydrogen, methyl or  $-(\text{CH}_2)_q\text{COOM}^2$ ;  $R^{10}$  is  $-(\text{CH}_2)_r-$ ; q and r are each independently an integer from 0 to 2;  $M^1$  and  $M^2$  are a monovalent metal, a divalent metal, ammonium or an organic amine;

the monomer (C) is a compound according to general formula (3):

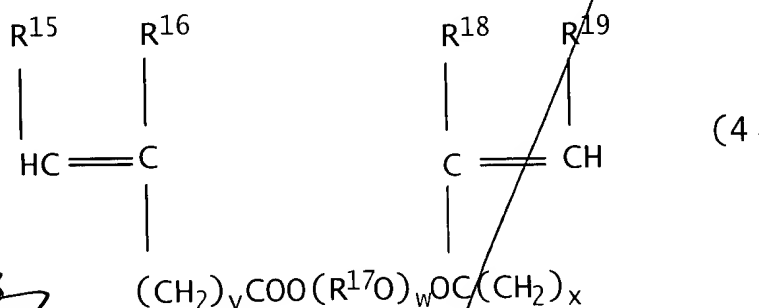


(3)

wherein  $R^{11}$  and  $R^{12}$  are each independently hydrogen, methyl or  $(\text{CH}_2)_u\text{COOM}^3$ , u is an integer from 0 to 2,  $M^3$  is a monovalent metal, a divalent metal, ammonium or an organic amine;  $R^{13}\text{O}$  is

112 one or more species of C<sub>2</sub>-C<sub>4</sub> oxyalkylene groups, and, in the case of two or more species, may be block or random; R<sup>14</sup> is a C<sub>1</sub>-C<sub>22</sub> hydrogen or an alkyl, phenyl or C<sub>1</sub>-C<sub>22</sub> alkylphenyl group; s is an integer from 0 to 2; t is an integer an average from 1 to 300; and

the monomer (D) is a compound according to the following general formula (4):



112 wherein R<sup>15</sup>, R<sup>16</sup>, R<sup>18</sup> and R<sup>19</sup> are each independently hydrogen or methyl, provided that not all are methyl; R<sup>17</sup>O is one or more species of C<sub>2</sub>-C<sub>4</sub> oxyalkylene groups, and, in the case of two or more species, may be block or random; w is an integer an average from 1 to 300; v and x are each independently an integer from 0 to 2.

4.(Amended) A cement additive according to claim 1 wherein the composition ratios of the monomers (A) and (B) in the polycarboxylic acid type copolymer are 30-100 mole % based on the total mole amount of their monomers, and the average molecular weight of said polycarboxylic acid type copolymer is from 3,000 to 100,000.

5.(Amended) A cement additive according to claim 1, wherein the average molecular weight of the polyalkylene glycol derivative is from 1,000 to 100,000, and in which the alkylene is one or more C<sub>2</sub>-C<sub>4</sub> species, and the terminal group of the polyalkylene glycol is hydrogen, a C<sub>1</sub>-C<sub>18</sub> alkyl group or a phenyl group.

6.(Amended) A cement additive according claim 1, containing 100 weight parts of the

112  
polycarboxylic acid type copolymer and 10-50 weight parts of the polyalkylene glycol derivative in the mixing proportion.

A1  
END  
7.(Amended) A cement additive according to claim 1, wherein the amount used in a cementitious composition is such that the amount of polycarboxylic acid type copolymer to cement is 0.05-1.0 % by weight based on the weight of cement, and the amount of the polyalkylene glycol derivative to cement is 0.005-0.5 % by weight based on the weight of cement. 112

SUB  
13  
8.(Amended) A high strength concrete mix, comprising a cement additive according to claim 1.

9. (Amended) A concrete mix for the production of articles by steam curing, comprising a cement additive according to claim 1.

A2  
11. (Amended) A method of preparation of a high-strength concrete mix, comprising the incorporation in the mix of a cement additive according to claim 1.

Please add new claims 12 - 17.

12. A high strength concrete mix, comprising a cement additive according to claim 2.

A3  
13. A high strength concrete mix, comprising a cement additive according to claim 3.

14. A concrete mix for the production of articles by steam curing, comprising a cement additive according to claim 2.

15. A concrete mix for the production of articles by steam curing, comprising a cement additive according to claim 3.

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16. A method of preparation of a high-strength concrete mix, comprising the incorporation in the mix of a cement additive according to claim 2.

17. A method of preparation of a high-strength concrete mix, comprising the incorporation in the mix of a cement additive according to claim 3.

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